

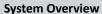
DH-IPC-HFW8232E-ZE

2MP Starlight IR Bullet Network Camera



- · 1/1.8" 2Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- ·50/60fps@1080P(1920×1080)
- · WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 4.1mm ~16.4mm zoom lens
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, IK10, PoE+





Ultra series adopts high performance DSP and Sony advanced image sensor technology, which can provide excellent image effects for users. With Dahua advanced software algorithm, the series is able to support people counting and heat map which brings extra business analysis value for customers. In addition, IP67, IK10 and heater compliance ensure the series can be applied in a harsher environment.

Functions

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide dynamic range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Business intelligent analysis (People counting, Heatmap)

Dahua Camera also supports more advanced intelligent features such as

















people counting and heat map besides basic IVS functions. These two functions can be applied to business intelligence and bring extra values to customers. It is available to acquire daily, weekly, monthly and yearly people flow via people counting and output data report. Heat map can be based on a moving object in time of space movement for analysis, find the most active area and output the report, which is to provide valuable data support for commercial applications.

Smart Scene Adaptive (SSA)

Smart Scene Adaptive (SSA) is an intelligent image technology, developed by Dahua that automatically evaluates and compensates for changes in the luminance of a scene. SSA automatically regulates the exposure parameters to improve image quality in a backlit scene, especially in scenes with traffic lights or headlights.

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Environmental & Protection

With a temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)



Toological	ifi +i							
Technical Specification						Bit Rate Control	CBR/VBR	
Camera							Bit Rate	H.264: 24~ 10240Kbps H.265: 14~ 6144Kbps
Image Sensor		1/1.8" 2Megapixel progressive scan CMOS					Day/Night	Auto(ICR) / Color / B/W
Effective Pixels		1920(H)x1080(V)					BLC Mode	BLC / HLC / WDR(120dB)/ SSA
RAM/ROM		1024MB/128MB					White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Scanning System		Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s					Noise Reduction	3D DNR
Minimum Illumination		0.002Lux/F1.53 (Color,1/3s,30IRE) 0.01Lux/F1.53 (Color,1/30s,30IRE) 0Lux/F1.53(IR on)					Motion Detection	Off / On (4 Zone, Rectangle)
S/N Ratio		More than 50dB					Region of Interest	Off / On (4 Zone)
IR Distance		Distance up to 50m(164ft)					Electronic Image Stabilization (EIS)	Support
IR On/Off Contr	rol	Auto/ Manual					Smart IR	Support
IR LEDs		4					Defog	Support
Lens							Digital Zoom	16x
		Motorized /A	uuto Iris/HALL				Flip	0°/90°/180°/270°
Lens Type			Auto Iris(HALL)				Mirror	Off / On
Mount Type		Board-in					Privacy Masking	Off / On (4 Area, Rectangle)
Focal Length		4.1~16.4mm motorized					Audio	
Max. Aperture		F1.53						0744 1074444 14401 0720
Angle of View		H: 104°~33°	V:57 ° ~18 °				Compression	G.711a/G.711Mu/AAC/ G.726
Optical Zoom		4x				Network		
Focus Control		Motorized					Ethernet	RJ-45 (100/1000Base-T)
Predictive Focus Algorithm (PFA) Close Focus Distance		Support 0.5m(1.64ft)					Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
ciose i ocus bis	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF Profile S&G, API
DORI Distance	W	57m(187ft)	23m(75ft)	11m(36ft)	6m(20ft)		Streaming Method	Unicast / Multicast
Distance	Т	137m(449ft)	55m(180ft)	27m(89ft)	14m(49ft)		Max. User Access	10 Users/20 Users
Pan/Tilt/Rot	ation						IVIAX. USEI ACCESS	NAS
Pan/Tilt/Rotation	on Range	Pan:0*~360*; Tilt:0*~90*; Rotation:0*~360*					Edge Storage	Local PC for instant recording Mirco SD card 128GB
Intelligence		Motion detection, Video tampering , Scene changing,					Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger			connection , IF	ampering , see address conf			Management Software	Smart PSS, DSS, DMSS
IVS				Abandoned/N	⁄lissing		Smart Phone	IOS, Android
Advanced Intelligent Functions		Face Detection, People Counting, Heat Map					Certifications	
Video							Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)					Interface	
Smart Codec		Support H.265+/H.264+					Video Interface	1 Port(For adjustment only)
Streaming Capability		3 Streams					Audio Interface	1/1 channel In/Out
Resolution		1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704×576/704x480) / VGA(640x480)/ CIF(352×288/342x240)					RS485	N/A
Frame Rate		Main Stream: 1080P(1~50/60fps) Sub Stream: D1 (1 ~ 50/60fps)					Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
		Third Stroom: 10900/1~E0/60fns)						

Third Stream: 1080P(1~50/60fps)

Electrical

Power Supply	DC12V, PoE+(802.3at)(Class 4)
Power Consumption	<13W
Environmental	
Operating Conditions	-40° C ~ +60° C (-40° E ~ +140° E) / Less than 95% RH

Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	273.2mm×95.0mm×95.0mm (10.76"×3.74"×3.74")
Net Weight	1.12Kg (2.47lb)
Gross Weight	1.52Kg (3.35lb)

Ordering In	formation		
Туре	Part Number	Description	
	DH-IPC- HFW8232EP-ZE	2MP Starlight IR Bullet Network Camera,PAL	
20.40	DH-IPC- HFW8232EN-ZE	2MP Starlight IR Bullet Network Camera,NTSC	
2MP camera	IPC-HFW8232EP- ZE	2MP Starlight IR Bullet Network Camera,PAL	
	IPC-HFW8232EN- ZE	2MP Starlight IR Bullet Network Camera,NTSC	
	PFA121	Junction box	
Accessories (optional)	PFA152-E	Pole Mount	
	LR1002	ePoE Over Coax Converter	

Accessories

Optional:







PFA121 Junction box

PFA152-E Pole Mount

LR1002 ePoE Over Coax Converter

Junction Mount	Pole Mount
PFA121	PFB121 + PFA152-E

